

Work Order ID 128202

128202

Page 1

Tuesday, January 13, 2015 9:04:58 AM

Item ID: 646.4001

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: AS350 Cable Cutters

Start Date: 1/13/2015 Start Qty: 1.00

1

Cust Item ID:

Required Date: 1/13/2015 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: MLJ Date: 15-01-13 Tooling: _____ Date: _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

646.4000

B

MLJ

15-01-28

100

Document Control

0.00

100

DC

DOCUMENT CONTROL

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP 646.4001

lx

DAS
46
9-89

FEB 09 2015

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

DAS
46
9-89

JAN 24 2015

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control

lx

DAS
46
9-89

FEB 09 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Work Order ID 128202***128202***

Page 2

Tuesday, January 13, 2015 9:04:58 AM

Item ID: 646.4001

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N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: AS350 Cable Cutters

Start Date: 1/13/2015 Start Qty: 1.00

1

Cust Item ID:

Required Date: 1/13/2015 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

130

0.00

130

Packaging

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP 646.4001

Location: _____ # Sold

46

9-89

FEB 09 2015

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

0.00

Quality Control

MLJ

15-02-09

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

Wednesday, January 14, 2015 10:01:39 AM

Page 1

Work Order ID: 128202

128202

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.0112		Manufactured	No				Each	241.0000		2			DAS 06 9-89
647.0112	DAS 46 9-89								**				

Location

Loc Qty

Loc Code

CCK109

241

112215

62

122245

35

122871

52

M130388

92

647.7703

DAS
46

Manufactured

No

Each

0.0000

~~*647.7703*~~

9-89

**

Strut Assembly

646.3301

Manufactured

No

Each

10.0000

~~*646.3301*~~

Upper Cutter Assy

DAS
46
9-89

**

Location

Loc Qty

Loc Code

CCK042

2

124729

2

CCK046

8

120672

2

122966

4

124258

2

JAN 24 2015

Picklist Print

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Page 2

Work Order ID: 128202

128202

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3001

646 3001

Lower Cutter Assy

DAS
46
9-89

Manufactured No

Each 12.0000

**

(1)

DAS
PS
5-89

Location

Loc Qty

Loc Code

CCK045

12

123145

1

124690

2

124731

2

124733

7

646.2910

646 2910

Deflector

DAS
46
9-89

Manufactured No

Each 1.0000

**

(1)

123386

DAS
PS
5-89

Location

Loc Qty

Loc Code

CCK050

1

120021

1

646.3810

646 3810

Bracket

DAS
46
9-89

Manufactured No

Each 24.0000

**

(2)

DAS
PS
5-89

Location

Loc Qty

Loc Code

cck104

24

121817

10

123020

6

123683

4

124329

4

646.3510

646 3510

Strut

DAS
46
9-89

Manufactured No

Each 13.0000

**

(1)

DAS
PS
5-89

Location

Loc Qty

Loc Code

cck101

13

120150

13

JAN 24 2015

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Page 3

Work Order ID: 128202

128202

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3511 Manufactured No

Each 12.0000

646 3511 DAS
Strut **46**
9-89

**

DAS
#5
9-89

Location

Loc Qty

Loc Code

cck102

12

120292

12

Each

12.0000

**

DAS
#5
9-89

646.3512 Manufactured No

646 3512
Strut

Location

Loc Qty

Loc Code

cck102

12

126226

12

Each

15.0000

**

DAS
#5
9-89

646.3513 Manufactured No

646 3513
Strut

Location

Loc Qty

Loc Code

cck102

15

110989

4

113944

1

126779

10

Each

2,973.000

**

JAN 24 2015
DAS
#5
9-89

NAS1149F0332P

Purchased

No

NAS1149F0332P DAS
Washer **46**
9-89

Location

Loc Qty

Loc Code

GA

222

122063

222

ST260a

2751

m130325

2000

m131026

751

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Page 4

Work Order ID: 128202

128202

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

Each

2,109.000

MS21042L3

DAS

46

Nut

9-89

Location

Loc Qty

Loc Code

FP001

467

M130922

467

ST305

1639

M130799

39

M131264

1600

ST307

3

123900

3

DAS

46

9-89

646.3110

Manufactured

No

Each

13.0000

646.3110

DAS

46

Channel

9-89

Location

Loc Qty

Loc Code

cck020

13

122959

5

126780

8

DAS

46

9-89

646.3710

Manufactured

No

Each

13.0000

646.3710

DAS

46

Doubler

9-89

Location

Loc Qty

Loc Code

CCK015

13

113729

13

DAS

46

9-89

646.3210

Manufactured

No

Each

17.0000

646.3210

DAS

46

Support

9-89

Location

Loc Qty

Loc Code

cck020

17

124388

8

126777

9

DAS

46

9-89

JAN 24 2015

Wednesday, January 14, 2015 10:01:40 AM

Shop Packet Print

Page 4

Picklist Print

Wednesday, January 14, 2015 10:01:40 AM

Work Order ID: 128202

128202

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3713 Manufactured No

Each 35.0000

646-3713

Gusset

DAS
46
9-09

**

1

DAS
06
9-09

Location

Loc Qty

Loc Code

cck103

35

120631

35

Each

298.0000

**

5

u

MS24694-S51

Purchased No

MS24694-S51

Screw

DAS
46
9-09

**

DAS
06
9-09

Location

Loc Qty

Loc Code

ST289

298

m130928

298

Each

31.0000

AN3-13A

Purchased No

AN3-13A

Bolt

DAS
46
9-09

**

u

DAS
06
9-09

Location

Loc Qty

Loc Code

CA

5

m129682

5

GA

20

m127070

20

ST349

6

m127070

6

Each

351.0000

AN3-4A

Purchased No

AN3-4A

Bolt

DAS
46
9-09

**

u

DAS
06
9-09

Location

Loc Qty

Loc Code

CA

108

m129682

108

ST350

243

m129702

243

10

u

JAN 14 2015

Picklist Print

Wednesday, January 14, 2015 10:01:40 AM

Page 6

Work Order ID: 128202

128202

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

CR3213-5-3

Purchased

No

Each

100.0000

CR3213-5-3

DAS
46

**

Cherry Rivet

Location

Loc Qty

Loc Code

CCK004

100

m127831

100

Each

351.0000

**

MS20470AD5-5.5

Purchased

No

MS20470AD5-5 5

DAS
46

Rivet

Location

Loc Qty

Loc Code

ST310

351

123425

351

Each

51.0000

**

646.3711

Manufactured

No

646 3711

DAS
46

Clip

9-89

Location

Loc Qty

Loc Code

cck103

3

118823

3

cck126

48

120626

48

Each

41.0000

**

646.3712

Manufactured

No

646 3712

DAS
46

Clip

9-89

Location

Loc Qty

Loc Code

cck103

41

118825

1

120630

40

JAN 24 2015

DAS

46

9-89

Picklist Print

Page 7

Wednesday, January 14, 2015 10:01:40 AM

Work Order ID: 128202

128202

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3811

Manufactured No

Each

38.0000

1

15
03
9-09

646.3811

DAS

Radius Block

46

9-89

Location

Loc Qty

Loc Code

cck104

38

107218

3

110717

20

122938

15

1

u

AN3-6A

Purchased

No

Each

172.0000

2

15
03
9-09

AN3-6A

DAS

Bolt

46

9-89

Location

Loc Qty

Loc Code

ST349

172

M128739

72

M130466

100

2

u

MS24694-S55

Purchased

No

Each

13.0000

1

15
03
9-09

MS24694-S55

DAS

Screw

46

9-89

Location

Loc Qty

Loc Code

ST289

13

m128401

13

1

u

646.3610

Manufactured

No

Each

12.0000

1

JAN 24 2015

15
03
9-09

646.3610

DAS

Filler

46

9-89

Location

Loc Qty

Loc Code

cck103

12

112887

2

124514

10

1

u

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Shop Packet Print

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Picklist Print

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Wednesday, January 14, 2015 10:01:41 AM

Work Order ID: 128202

128202

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3714 Manufactured No

Each 36.0000

646.3714

DAS
46
9-89

**

DAS
46
9-89

Location

Loc Qty

Loc Code

cck103

36

120632

36

Each

1,232.000

MS20470AD5-6

Purchased No

MS20470AD5-6

DAS
46
9-89

**

DAS
46
9-89

Location

Loc Qty

Loc Code

CCK004

890

124089

890

ST309

342

105433

342

Each

16.0000

646.3812

Manufactured No

646.3812

DAS
46
9-89

**

DAS
46
9-89

Location

Loc Qty

Loc Code

cck104

16

122898

16

Each

336.0000

AN3-3A

Purchased No

AN3-3A

DAS
46
9-89

**

DAS
46
9-89

Location

Loc Qty

Loc Code

ST350

336

m129591

336

Bolt

JAN 24 2015

Wednesday, January 14, 2015 10:01:41 AM

Shop Packet Print

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Picklist Print

Page 9

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646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3813

Manufactured No

Each

22.0000

646 3813 DAS

Strut Bracket

9-89

**

DAS

9-89

Location

Loc Qty

Loc Code

cck104

22

115021

4

121503

10

122968

4

124265

4

MS20470AD5-7

Purchased

No

Each

608.0000

MS20470AD5-7

DAS

Rivet

46

9-89

**

DAS

9-89

Location

Loc Qty

Loc Code

ST310

608

123425

608

MS21047-3

Purchased

No

Each

98.0000

MS21047-3

DAS

Nut Plate

46

9-89

**

DAS

9-89

Location

Loc Qty

Loc Code

ST303

98

m130358

98

CCR264SS3-02

Purchased

No

Each

131.0000

CCR264SS3-02

DAS

Rivet, Cherry

46

9-89

**

DAS

9-89

Location

Loc Qty

Loc Code

ST321

131

M128879

131

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Shop Packet Print

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Picklist Print

Wednesday, January 14, 2015 10:01:41 AM

Work Order ID: 128202

128202

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

AN3-5A
AN3-5A DAS
Bolt 46
9-89

Purchased No

Each 266.0000

**

DAS
OS
9-89

Location	Loc Qty	Loc Code
CA	151	
m129682	151	
FP001	69	
m130325	69	
GA	46	
m129507	46	

646.3715
646-3715 DAS
Strut Doubler 46
9-89

Manufactured No

Each 21.0000

**

Location	Loc Qty	Loc Code
cck103	21	
115101	1	
123469	12	
123700	8	

MS27039-1-12
MS27039-1-12 DAS
Screw 46
9-89

Purchased No

Each 80.0000

**

Location	Loc Qty	Loc Code
ST285	80	
m128799	80	

646.3716
646-3716 DAS
Gauge Bracket 46
9-89

Manufactured No

Each 16.0000

**

Location	Loc Qty	Loc Code
cck103	16	
120167	2	
122908	14	

DAS
OS
9-89
JAN 24 2015

Picklist Print

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Work Order ID: 128202

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Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

MS20426AD5-7

Purchased

No

Each

266.0000

MS20426AD5-7

DAS

**

RIVET

46

9-89

Location

Loc Qty

Loc Code

ST312

266

101340

266

Each

54.0000

MS24694-S54

Purchased

No

MS24694-S54

DAS

**

SCREW

46

9-89

Location

Loc Qty

Loc Code

ST289

54

m130928

54

Each

506.0000

MS27039-1-21

Purchased

No

MS27039-1-21

DAS

**

Screw

46

9-89

Location

Loc Qty

Loc Code

ST273A

495

m126319

100

m127904

395

ST284

11

124326

11

Each

282.0000

MS27039-1-20

Purchased

No

MS27039-1-20

DAS

**

Screw

46

9-89

Location

Loc Qty

Loc Code

ST284

282

124326

282

Picklist Print

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Wednesday, January 14, 2015 10:01:42 AM

Work Order ID: 128202

128202

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-19

Purchased

No

Each

574.0000

22

DAS

MS27039-1-19

DAS

46

Screw

9-89

**

DAS

9-89

Location

Loc Qty

Loc Code

GA

32

m124326

32

ST273A

401

m127904

401

ST284

141

125654

5

m127904

136

Each

35.0000

1

DAS

646.3717

Manufactured

No

646-3717

DAS

46

Doubler

9-89

**

DAS

9-89

Location

Loc Qty

Loc Code

cck103

35

114916

5

120633

30

Each

22.0000

2

DAS

646.3718

Manufactured

No

646-3718

DAS

46

Custom Washer

9-89

**

DAS

9-89

Location

Loc Qty

Loc Code

cck104

22

110639

22

2

JAN 24 2015

Picklist Print

Wednesday, January 14, 2015 10:01:42 AM

Work Order ID: 128202

128202

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3719

Manufactured No

Each

65.0000

2

646.3719

DAS

46

Doubler

9-89

**

DAS
05
9-89

Location

Loc Qty

Loc Code

cck104

34

120338

14

123589

20

cck126

31

120634

31

Each

753.0000

2

**

DAS
05
9-89

Location

Loc Qty

Loc Code

GA

250

m129541

250

ST285

503

m123522

60

m128635

41

m130358

402

Each

579.0000

10

**

DAS
05
9-89

Location

Loc Qty

Loc Code

ST338a

579

m125709

470

m130005

109

10

JAN 24 2015

AN3-11A

Purchased

No

Each

579.0000

AN3-11A

DAS

46

Bolt

9-89

**

Picklist Print

Wednesday, January 14, 2015 10:01:42 AM

Page 14

Work Order ID: 128202

128202

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

600.0990
600 0990
MAGNABOND 6398 PART A
DAS 46
9-89

Purchased No

Each 5.0000

**

1
131331

DAS
9-89

Location

Loc Qty

Loc Code

MF
M129818

5
5

5.0000

**

1
131331

DAS
9-89

600.0991
600 0991
MAGNOBOND 6398 PART B
DAS 46
9-89

Purchased No

Each 5.0000

**

Location

Loc Qty

Loc Code

MF
130685

5
5

21.0000

**

1

DAS
9-89

600.1012
600 1012
Sealant PR1425B2 (#654 sem)
DAS 46
9-89

Purchased No

Each 21.0000

**

Location

Loc Qty

Loc Code

cck017
m129767
cck018
m129749
m130388

10
10
11
6
5

18.0000

**

8 feet

u

JAN 24 2015

600.0129
600 0129
VHB TAPE 75935A651
DAS 46
9-89

Purchased No

f 18.0000

**

Location

Loc Qty

Loc Code

CCK095
m127920

18
18

DAS
9-89

u

Picklist Print

Wednesday, January 14, 2015 10:01:42 AM

Work Order ID: 128202

128202

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

600.1013 Purchased No

Each 1,000.000

600 1013

021200-3M TAPE PRIMER 94 PRIMER 24216

DAS
46
9-89

**

DAS
03
9-89

Location

Loc Qty

Loc Code

CCK095

1000

6/15/2016

m131145

1000

Each

2.0000

**

DAS
03
9-89

646.3910 Manufactured No

646 3910

Shim

SAC #1

DAS
46
9-89

Location

Loc Qty

Loc Code

cck104

2

120237

2

Each

25.0000

**

DAS
03
9-89

646.3911 Manufactured No

646 3911

Shim

DAS
46
9-89

Location

Loc Qty

Loc Code

cck104

25

107669

1

118824

12

123075

12

Each

4.0000

**

DAS
03
9-89

646.3912 Manufactured No

646 3912

Shim

SAC #1

DAS
46
9-89

Location

Loc Qty

Loc Code

cck104

4

121870

4

JAN 24 2015

Picklist Print

Wednesday, January 14, 2015 10:01:42 AM

Work Order ID: 128202

128202

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3913 Manufactured No

Each 4.0000

646 3913

DAS
46
9-89

**

DAS
05
9-89

Shim

Location

Loc Qty

Loc Code

cck104

4

107550

4

Each

202.0000

**

AN3-12A

Purchased No

AN3-12A

DAS
46
9-89

Bolt

Location

Loc Qty

Loc Code

CA

69

m129682

69

ST349

133

m130566

133

Each

67.0000

**

MS27039-1-16

Purchased No

MS27039-1-16

DAS
46
9-89

Screw

Location

Loc Qty

Loc Code

ST285

67

m130224

67

Each

64.0000

**

AN44-5A

Purchased No

AN44-5A

DAS
46
9-89

Eyebolt

Location

Loc Qty

Loc Code

ST339

64

113791

9

124241

25

m123900

20

m126193

10

JAN 24 2015

Picklist Print

Wednesday, January 14, 2015 10:01:43 AM

Page 17

Work Order ID: 128202

128202

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

AN665-34R Purchased No

Each 24.0000

AN665-34R DAS
Clevis 46
9-89

**

DAS
05
9-89

Location

Loc Qty

Loc Code

ST330

24

M126180

24

Each

202.0000

**

DAS
05
9-89

AN4C7A Purchased No

AN4C7A DAS
BOLT 46
9-89

Location

Loc Qty

Loc Code

ST312A

100

m127363

100

ST345

102

m128634

102

Each

478.0000

**

DAS
05
9-89

NAS1149F0432P Purchased No

NAS1149F0432P DAS
WASHER 46
9-89

Location

Loc Qty

Loc Code

st268

478

M128995

478

JAN 24 2015

Picklist Print

Wednesday, January 14, 2015 10:01:43 AM

Work Order ID: 128202

128202

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

Each

3,572.000

2

9-89

MS21042L4
Locknut

DAS
46
9-89

**

Location

Loc Qty

Loc Code

FP001

42

m124231

42

GA

704

m127813

704

ST260a

2000

m130799

2000

ST305

826

426

426

m128300

8

m130922

392

AN316C4R

Purchased

No

Each

77.0000

2

AN316C4R
NUT

DAS
46
9-89

**

Location

Loc Qty

Loc Code

ST331

77

112314

11

124561

25

m127584

8

m127618

20

m127838

13

JAN 24 2015

DAS
9-89

Picklist Print

Page 19

Wednesday, January 14, 2015 10:01:43 AM

Work Order ID: 128202

128202

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

MS21042-3 MS21042L3 Purchased No

Each 875.0000

**

DAS
06
9-89

MS21042-3 DAS
46

Nut / use MS21042L3

9-89

Location

Loc Qty

Loc Code

CA	501	
M129682	501	
ST305	374	
M128770	274	
M129541	100	

MS27039-08-13 Purchased No

Each 479.0000

**

DAS
06
9-89

MS27039-08-13 DAS
46

Screw

9-89

Location

Loc Qty

Loc Code

ST273A	346	
124326	346	
ST281	133	
123352	39	
4067	73	
M123185	21	

MS21042-08 MS21042L08 Purchased No

Each 32.0000

**

DAS
06
9-89

MS21042-08 DAS
46

USE MS21042L08

9-89

Location

Loc Qty

Loc Code

ST304	25	
122815	25	
ST306	7	
123185	3	
123525	4	

Wednesday, January 14, 2015 10:01:43 AM

Shop Packet Print

Page 19

Picklist Print

Page 20

Wednesday, January 14, 2015 10:01:43 AM

Work Order ID: 128202

128202

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

NAS1149FN832P

Purchased

No

Each

4,968.000

24

NAS1149FN832P

Washer

DAS

46

9-89

**

DAS

66

9-89

JAN 24 2015

Location

Loc Qty

Loc Code

ST260a

3600

125268

3600

st268

1368

M130388

1368

4

W

Wednesday, January 14, 2015 10:01:44 AM

Shop Packet Print

Page 20

APICAL

INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO.

04731

SHEET 1 OF 2

DWG NO. 646.4000

REV: A

PREPARED BY J. SOTO

DATE: 11/04/2014

EFFECT ON DWG
☒ INC. ☐ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY:

ENGR

MFG

QC

EFF.

NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: REVISED BOM. INCORPORATED ECN 03046 AND 03079.

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER

NO. 128202 MLC
1501-13

76	A	601.2764	4	4	WASHER	NAS1149FN832P	
75	A	601.2973	2	2	LOCKNUT	MS21042-08	
74	A	601.2988	2	2	SCREW	MS27039-0813	
73	A	601.2943	2	2	LOCKNUT	MS21042-3	
72	A	601.3128	2	2	NUT	AN316C4R	
71	A	601.3209	2	2	LOCKNUT	MS21042L4	
70	A	601.2638	4	4	WASHER	NAS1149F0432P	
69	A	601.2669	2	2	BOLT	AN4C7A	
68	A	601.3119	2	2	CLEVIS	AN665-34R	
67	A	601.3121	2	2	EYE BOLT	AN44-57	
66	A	650.9201	2	2	EYE BRACKET ASSY		
51	R	601.2926	10	10	BOLT	AN3-11A	
12	R	601.1624	53	61	LOCKNUT	MS21042L3	
11	R	601.1607	120	138	WASHER	NAS1149F0332P	
8	R	647.7703	2	2	STRUT ASSY		
7	R	647.0112	2	2	STRUT BRACKET		
F/N/TC	PART NUMBER	.4003 .4001	QTY		DESCRIPTION	MATERIAL	SPECIFICATION

DOCUMENTS EFFECTED:

☐ MDL ☒ INSTALL INSTRUCTIONS ☒ ICA ☐ FMS ☒ BOM

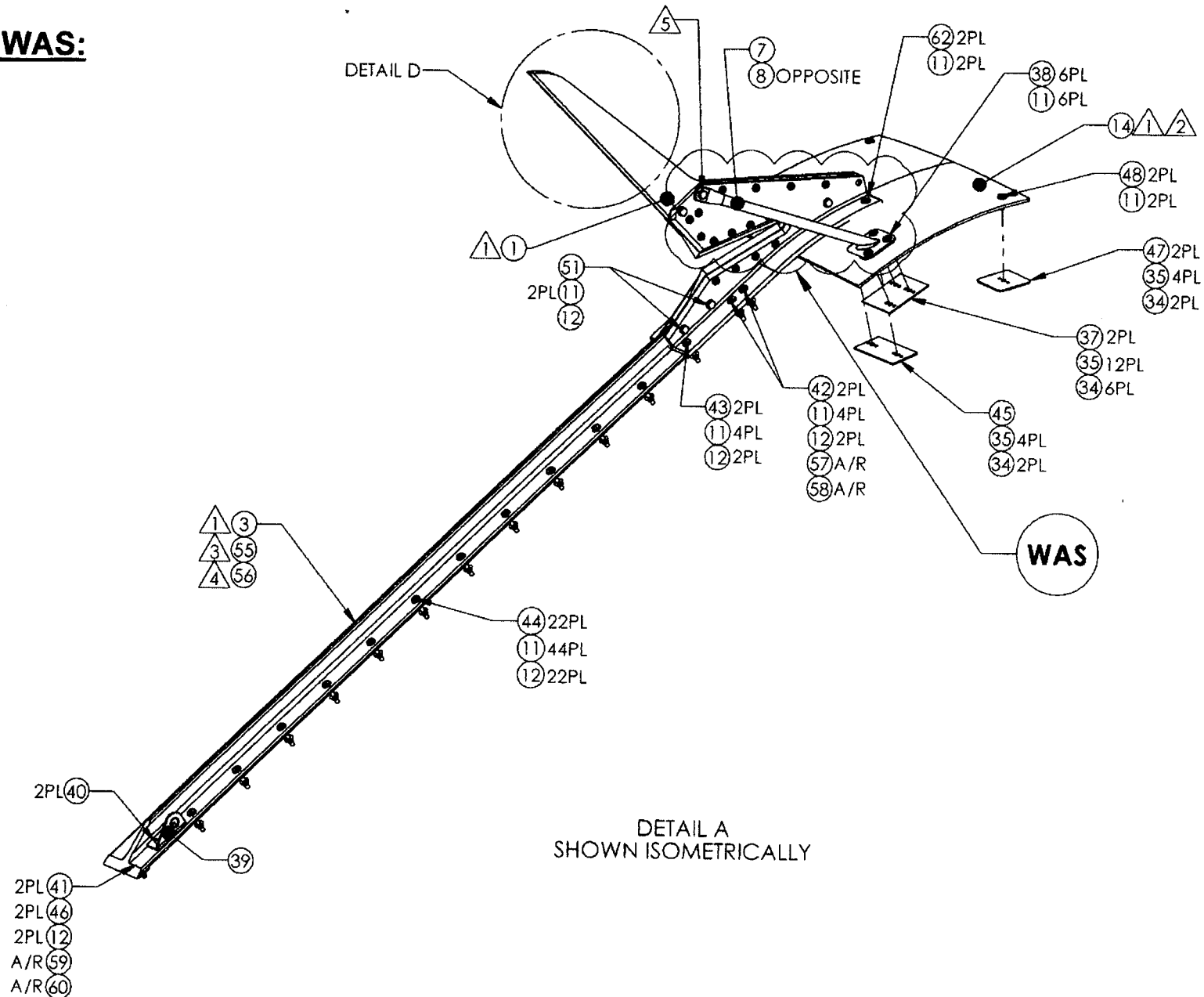
CHANGE CATEGORY

☐ MAJOR ☒ MINOR

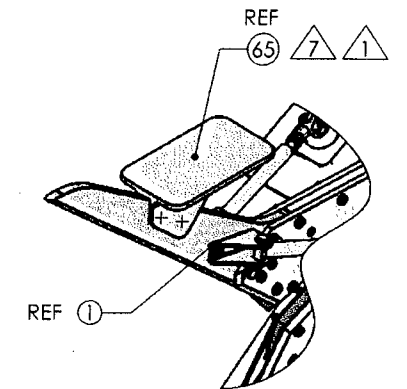
DER REVIEW REQUIRED

☐ YES ☒ NO

SHEET 2 WAS:

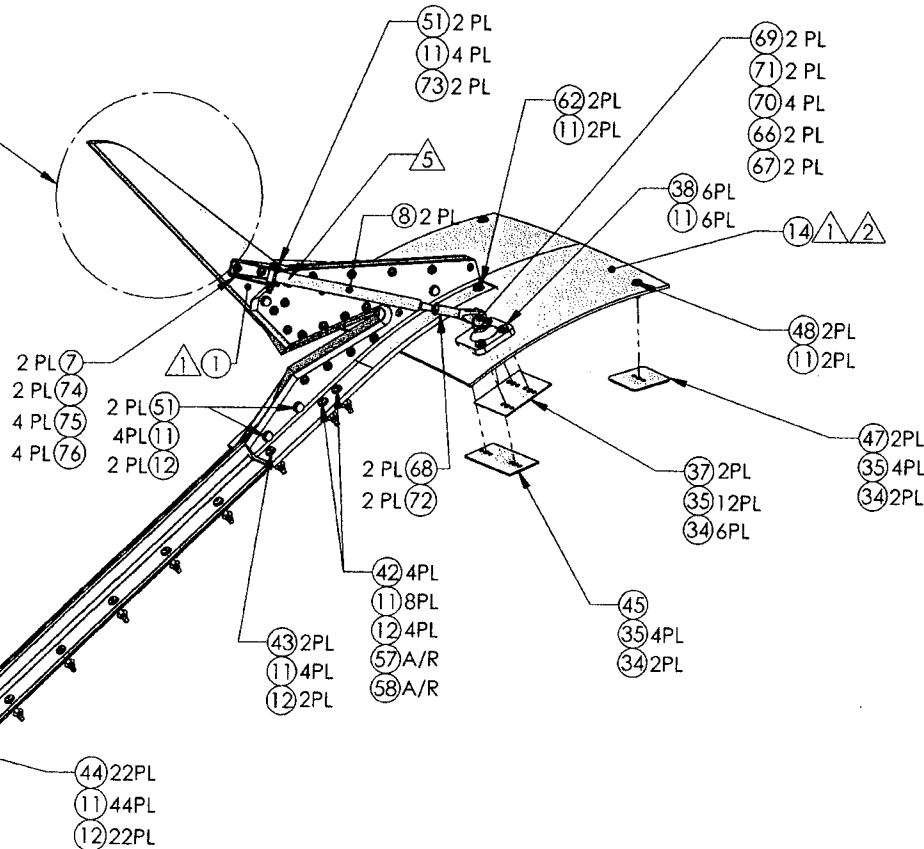


THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.



DETAIL D
TYPICAL GPS MOUNT KIT INSTALLATION

DETAIL D

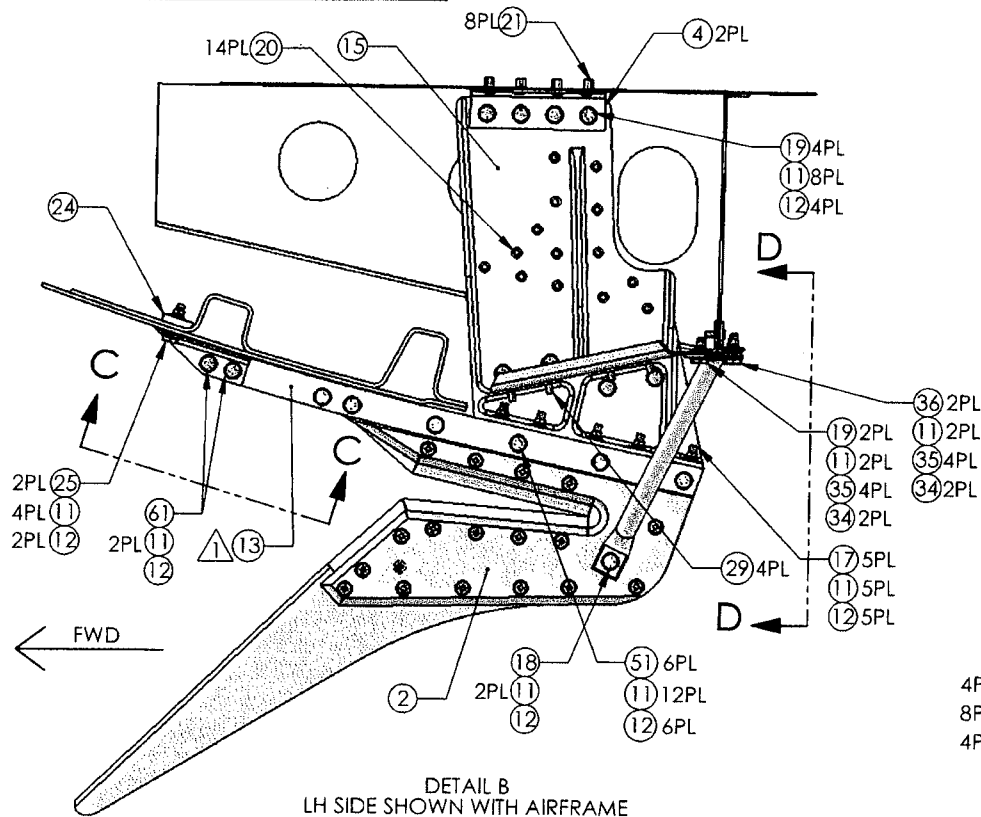


DETAIL A
SHOWN ISOMETRICALLY

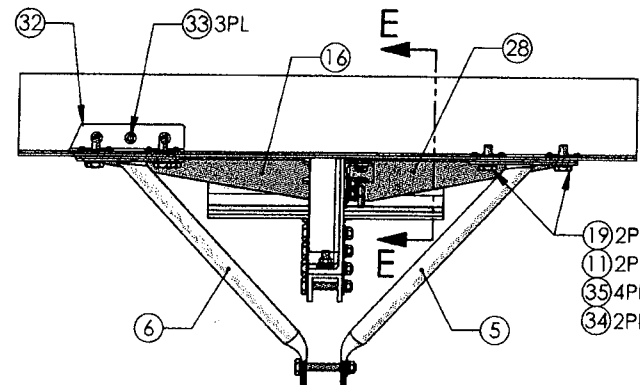
ORIGINAL DATE 08-22-08		APICAL INDUSTRIES	
DRAWN BY S. HUFF		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY P. BRAVO		AS350 CABLE CUTTERS KIT	
DRAWING APPROVAL P. BRAVO		SCALE: NONE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DIMENSIONS ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°		REV. NO. 646.4000	REV. B
CAGE CODE 07M26		SHEET 2 OF 4	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

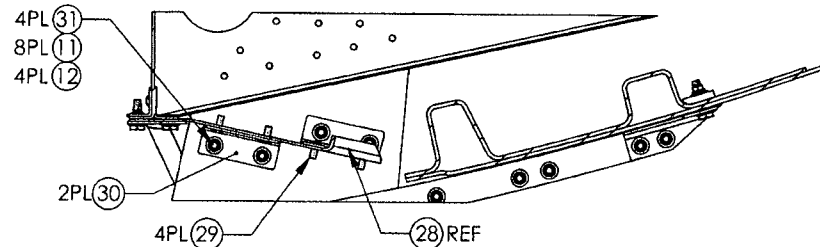
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



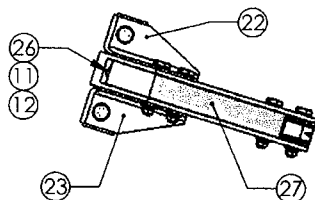
DETAIL B
LH SIDE SHOWN WITH AIRFRAME



SECTION D-D
CUTTER HIDDEN FOR CLARITY



SECTION E-E

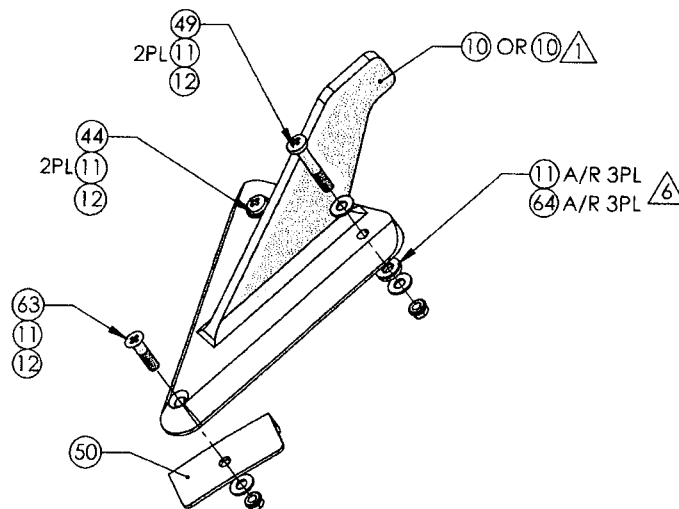


SECTION C-C

ORIGINAL DATE (MO-DA-YR) 08-27-08		APICAL INDUSTRIES	
DRAWN BY S. HUFF		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAVO		AS350 CABLE CUTTERS KIT	
CONTRACT NO.		SCALE NONE	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SHEET 3 OF 4	REV B

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

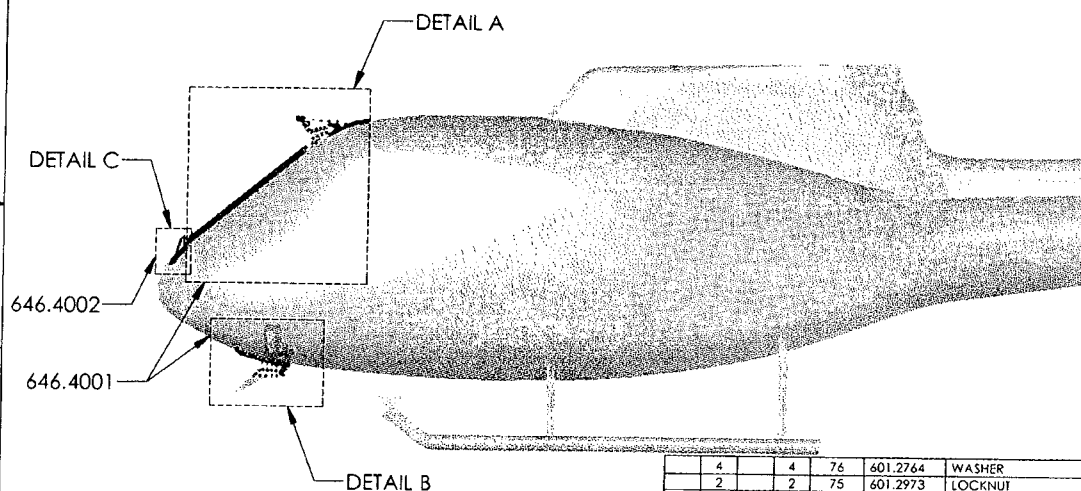


DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

ORIGINAL DATE 11/01/01 08:27:08		APICAL INDUSTRIES	
DRAWN BY S. HUBB		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY P. BRAY		AS350 CABLE CUTTERS KIT	
DRAWING APPROVAL 08/27/08		SCALE NONE	
CONTRACT NO.		SHEET 4 OF 4	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES 1:30		REV. B 07M26 646.4000	

NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- 2 INSTALL F/N 14 WITH F/N 52 & 53
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR : MCMMASTER-CARR P/N 75935A651
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE
VENDOR: R.S. HUGHES P/N 021200-24216
- 5 REUSE FASTENERS FROM F/N 1
- 6 USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT
- 7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1

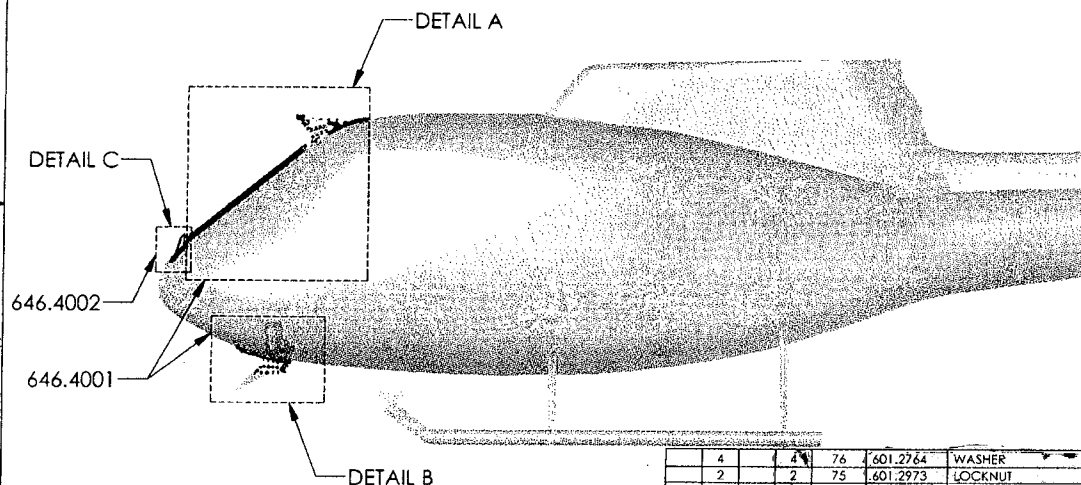


4004 4003 4002 4001 5										4	76	601.2764	WASHER	NAST1497H833 P	
2										2	75	601.2973	LOCKNUT	MS21042-08	
2										2	74	601.2988	SCREW	MS27039-0813	
2										2	73	601.2943	LOCKNUT	MS12042-3	
2										2	72	601.3128	NUT	AN3164C-9	
2										2	71	601.3209	LOCKNUT	NAST10424	
4										4	70	601.2638	WASHER	NAST149043E P	
2										2	69	601.2659	BOLT	AN4C7A	
2										2	68	601.3119	CLIPVIS	AN665-34R	
2										2	67	601.3121	EYE BOLT	AN64A-5A	
2										2	66	650.9201	EYE BRACKET ASSY		
REF	REF									65	647.5701	GPS MOUNT KIT			
6										64	601.3151	WASHER	NAST14910B33P		
2										63	601.2911	SCREW	MS27039-4553		
2										62	601.2637	SCREW	MS27039-1-16		
1										61	601.2763	BOLT	AN3-12A		
4										60	646.3913	SHIM			
4										59	646.3912	SHIM			
1										58	646.3911	SHIM			
4										57	646.3910	SHIM			
5										56	600.1013	PRIMER			
4004	4003	4002	4001	5	FIND #	PART #	DESCRIPTION			MATL	SPEC				

[illegible]

DAS
46
9-89

- ① AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- ② INSTALL F/N 14 WITH F/N 52 & 53
- ③ 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR : MCMMASTER-CARR P/N 75935A651
- ④ 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE
VENDOR: R.S. HUGHES P/N 021200-24216
- ⑤ REUSE FASTENERS FROM F/N 1
- ⑥ USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT
- ⑦ AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1

[illegible][illegible]